

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P296646

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-RDP-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2760.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

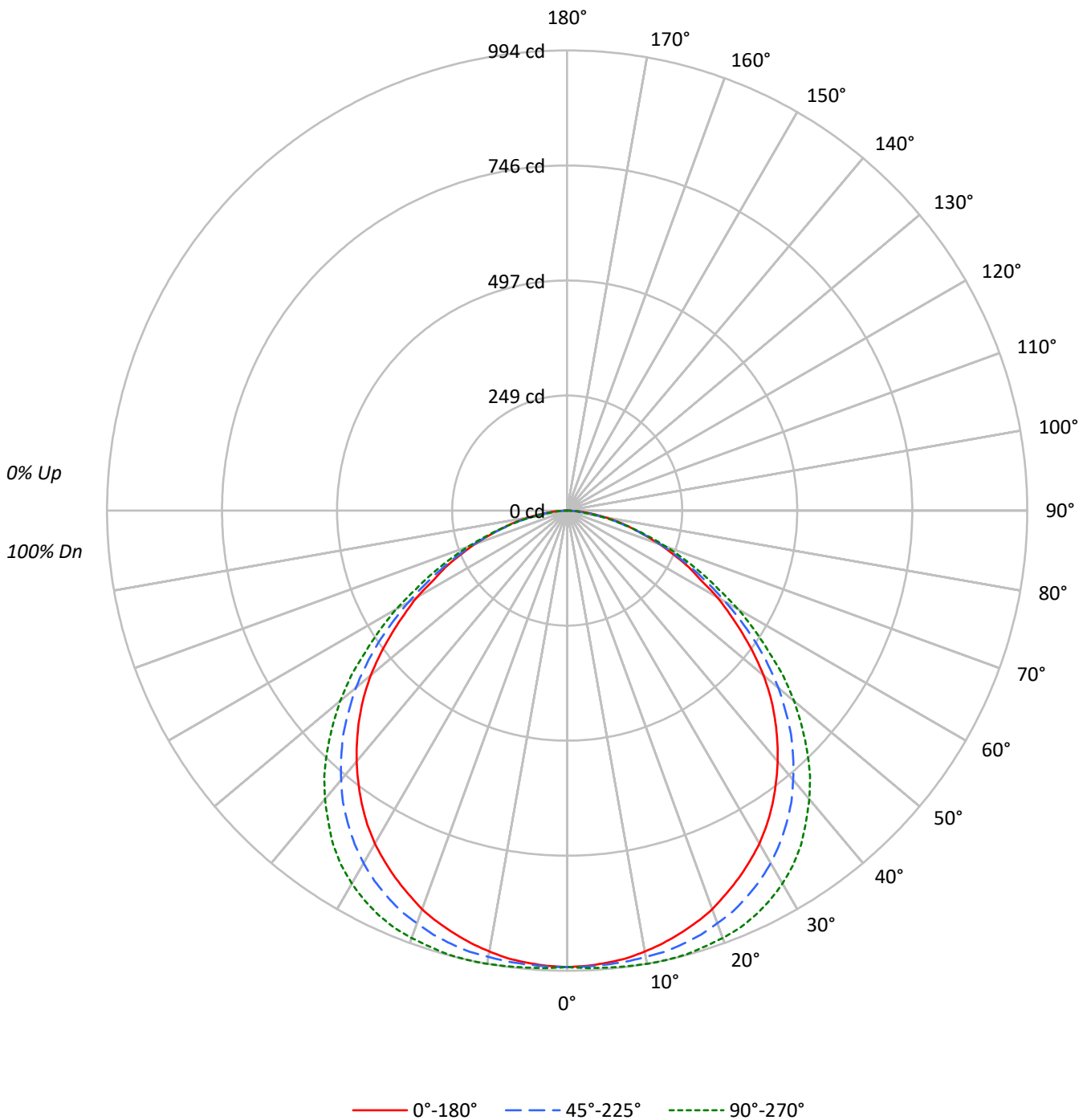
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2653	2653	2653
5°	2649	2659	2677
10°	2643	2675	2717
15°	2634	2700	2765
20°	2625	2717	2814
25°	2602	2732	2862
30°	2581	2733	2890
35°	2540	2712	2895
40°	2485	2669	2858
45°	2415	2602	2788
50°	2318	2495	2678
55°	2170	2336	2495
60°	2017	2126	2299
65°	1849	1913	2042
70°	1674	1700	1780
75°	1474	1439	1492
80°	1282	1178	1125
85°	1044	781	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.4
10°-20°	273.7	9.9
20°-30°	424.1	15.4
30°-40°	516.2	18.7
40°-50°	525.7	19.0
50°-60°	443.3	16.1
60°-70°	299.9	10.9
70°-80°	149.9	5.4
80°-90°	33.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	791.7	28.7
0°-40°	1307.9	47.4
0°-60°	2276.9	82.5
0°-90°	2760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	981	982	984	989	991	93
15°	945	952	969	986	993	267
25°	876	890	920	950	964	404
35°	773	790	826	864	881	483
45°	635	647	684	719	733	489
55°	463	469	498	522	532	414
65°	290	285	300	314	321	287
75°	142	137	138	140	144	152
85°	34	29	25	22	22	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.9	985.9	985.9	985.9	985.9
2.5°	984.2	984.2	985.9	987.6	989.3
5°	980.8	982.5	984.2	989.3	990.9
7.5°	975.8	977.4	982.5	989.3	992.6
10°	967.3	970.7	979.1	989.3	994.3
12.5°	957.2	962.2	975.8	987.6	994.3
15°	945.4	952.1	969.0	985.9	992.6
17.5°	931.9	940.3	960.6	979.1	987.6
20°	916.7	926.8	948.7	972.4	982.5
22.5°	896.4	909.9	936.9	963.9	975.8
25°	876.2	889.7	920.0	950.4	963.9
27.5°	854.2	869.4	901.5	935.2	948.7
30°	830.6	844.1	879.5	915.0	930.2
32.5°	803.6	817.1	854.2	891.3	908.2
35°	773.2	790.1	825.5	864.3	881.2
37.5°	741.1	756.3	795.1	832.3	847.5
40°	707.3	722.5	759.7	798.5	813.7
42.5°	671.9	687.1	722.5	759.7	776.6
45°	634.7	646.6	683.7	719.2	732.7
47.5°	595.9	604.4	639.8	673.6	687.1
50°	553.7	562.2	595.9	626.3	639.8
52.5°	508.1	514.9	547.0	574.0	589.2
55°	462.6	469.3	498.0	521.6	531.8
57.5°	417.0	420.4	445.7	469.3	479.4
60°	374.8	374.8	395.0	413.6	427.1
62.5°	325.8	330.9	346.1	364.6	369.7
65°	290.4	285.3	300.5	314.0	320.7
67.5°	249.8	246.5	256.6	268.4	271.8
70°	212.7	207.6	216.1	222.8	226.2
72.5°	173.9	172.2	175.6	180.6	182.3
75°	141.8	136.7	138.4	140.1	143.5
77.5°	113.1	104.7	106.4	104.7	106.4
80°	82.7	76.0	76.0	74.3	72.6
82.5°	55.7	52.3	49.0	45.6	43.9
85°	33.8	28.7	25.3	21.9	21.9
87.5°	13.5	10.1	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)